

In the Claims:

Claim 1 (currently amended):

- 1 1. A flat heat pipe having a vacuum chamber which is provided with an evaporator in contact
2 with a heating element, and a condenser connected to a cooling device, said vacuum chamber
3 being provided in a hollow interior with a wick structure, and a predetermined amount of a
4 working fluid by which an evaporation-condensation cycle is effected;
- 5 wherein said vacuum chamber is provided in the hollow interior with a plurality of heat
6 conduction pillars;
- 7 whereby further wherein said heat conduction pillars are in contact with an upper wall and a
8 lower wall of the hollow interior of said vacuum chamber, and said heat conduction pillars are
9 disposed at or around a hot spot of the flat heat pipe serving to enhance heat transfer of the
10 flat heat pipe ~~conduct a heat energy from the evaporator to the condenser.~~

Claim 2 (currently amended):

- 1 2. The flat heat pipe as defined in claim 1, wherein said heat conduction pillars ~~are distributed~~
2 ~~in an evaporation area or hot spots and are various in size~~ have different cross-sectional area
3 and shape.

Claim 3 (original):

- 1 3. The flat heat pipe as defined in claim 1, wherein said heat conduction pillars are made of a
2 material having a high thermal conductivity.

Claim 4 (currently amended):

1 4. The flat heat pipe as defined in claim 1, which further comprises ~~wherein said heat conduction~~
2 ~~pillars are provided~~ with a plurality of wick structures arranged alternately with the heat
3 conduction pillars ~~whereby said wick structures serve~~ to enhance the evaporation-
4 condensation cycle.

Claim 5 (currently amended):

1 5. The flat heat pipe as defined in claim 4, wherein said wick structures are of a porous medium
2 made of a sintered metal powder ~~whereby said wick structures serve to enhance the~~
3 ~~evaporation-condensation cycle.~~

Claim 6 (currently amended):

1 6. The flat heat pipe as defined in claim 4, wherein said wick structures are of a mesh or metal
2 spring ~~whereby said wick structures serve to enhance the evaporation-condensation cycle.~~

Claim 7 (currently amended):

1 7. The flat heat pipe as defined in claim 1 4, wherein said heat conduction pillars have a grooved
2 or porous structure ~~wick structures take a grooved or porous form by the heat conduction~~
3 ~~pillars itself around~~ ~~whereby said wick structures serve~~ to enhance the evaporation-
4 condensation cycle.

Claim 8 (new):

1 8. The flat heat pipe as defined in claim 1 which further comprises support pillars disposed to
2 provide structural support.